CLAIMS

What is claimed is:

- A system for allowing form and pointer synchronization between users sharing hypertext documents using web browsers, the system comprising:
 - (a) a secure control applet associated with a web browser on a client computer for sending and receiving form and pointer update information received from a user co-browsing a non-secure web page;
 - a non-secure control applet associated with the web browser on the client computer for sending and receiving form synchronization and pointer update information received from a user co-browsing a non-secure web page;
 - (c) at least one callback function for detecting a form modification or a pointer update from a user of the web browser, for determining whether the form modification or pointer update occurs in a secure or non-secure web page, and for sending a form modification or pointer update message to the secure control applet in response to determining that the form modification or pointer update occurs in a secure web page and to the non-secure control applet in response to determining that the form modification or pointer update occurs in a non-secure web page; and
 - (d) a co-browse server for receiving form modification and pointer update messages from the secure and non-secure control applets and for broadcasting the messages to participants in a cobrowsing conference.

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- The system of claim 1 wherein the secure control applet is downloaded using the secure hyper-text transfer protocol (HTTPS).
- The system of claim 1 wherein the non-secure control applet is downloaded using the non-secure hyper-text transfer protocol (HTTP).
- 5 4. The system of claim 1 wherein the callback function includes a first callback function for detecting form modifications and notifying the appropriate secure or non-secure control applet and a second callback function for detecting pointer updates and notifying the appropriate secure or non-secure control applet.
- The system of claim 1 wherein the co-browse server is adapted to broadcast a form modification or pointer update message to secure control applets of participants in a co-browsing conference in response to receiving the form modification or pointer update from the secure control applet.
- 15 6. The system of claim 1 wherein the co-browse server is adapted to broadcast a form modification or pointer update message to non-secure control applets of participants in a co-browsing conference in response to receiving the form modification or pointer update from the non-secure control applet.
- 7. The system of claim 1 wherein the control applets are adapted to display form modifications and pointer updates to conference participants in response to the messages received from the co-browse server.
 - 8. A method for form modification and pointer synchronization in secure and non-secure web documents among participants in a co-browsing conference, the method comprising:

- establishing a web conference that allows multiple participants to simultaneously view web documents;
- (b) detecting form modifications and pointer updates by the participants in secure and non-secure web documents:
- 5 (c) determining whether the form modifications and pointer updates occur in secure or non-secure web documents;
 - in response to determining that a form modification or pointer update occurs in a secure web document, notifying a co-browse server via a secure control applet; and
 - (e) in response to determining that a form modification or pointer update occurs in a non-secure web document, notifying a cobrowse server via a non-secure control applet.
 - 9. The method of claim 8 wherein establishing a web conference includes downloading, to each of the participants, a shared web page including form update and pointer synchronization scripts for detecting form updates and pointer actions by the participants and for notifying the cobrowse server.
 - The method of claim 8 wherein establishing a web conference includes downloading the secure and non-secure control applets to each of the participants.
 - 11. The method of claim 9 wherein the detecting form modifications and pointer updates includes executing the form update and pointer synchronization scripts.

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- 12. The method of claim 8 wherein notifying a co-browse server via a secure control applet includes notifying the co-browse server via encrypted messages.
- 13. The method of claim 8 wherein notifying a co-browse server via a secure control applet includes notifying a co-browse server via an HTTP JAVA control applet.
 - 14. The method of claim 8 comprising, at the co-browse server, in response to receiving a form modification or pointer update in a secure web page, broadcasting the form modification or pointer update to the conference participants' secure control applets.
 - 15. The method of claim 8 comprising, at the co-browse server, in response to receiving a form modification or pointer update in a non-secure web page, broadcasting the form modification or pointer update to the conference participants' secure control applets.
 - 16. A computer program product comprising computer-executable instructions embodied in a computer-readable medium for performing steps comprising:
 - (a) establishing a web conference that allows multiple participants to simultaneously view web documents:
 - (b) detecting form modifications and pointer updates by the participants in secure and non-secure web documents:
 - determining whether the form modifications and pointer updates (C) occur in secure or non-secure web documents:

- in response to determining that a form modification or pointer update occurs in a secure web document, notifying a co-browse server via a secure control applet; and
- (e) in response to determining that a form modification or pointer update occurs in a non-secure web document, notifying a cobrowse server via a non-secure control applet.
- 17. The computer program product of claim 16 wherein establishing a web conference includes downloading, to each of the participants, a shared web page including form update and pointer synchronization scripts for detecting form updates and pointer actions by the participants and for notifying the co-browse server.
- 18. The computer program product of claim 16 wherein establishing a web conference includes downloading the secure and non-secure control applets to each of the participants.
- 19. The computer program product of claim 17 wherein the detecting form modifications and pointer updates includes executing the form update and pointer synchronization scripts.
- The computer program product of claim 16 wherein notifying a co-browse server includes notifying the co-browse server via encrypted messages.
- 20 21. The method of claim 16 wherein notifying a co-browse server via a secure control applet includes notifying a co-browse server via an HTTP JAVA control applet.
 - The computer program product of claim 16 comprising, at the co-browse server, in response to receiving a form modification or pointer update in a

- secure web page, broadcasting the form modification or pointer update to the conference participants via their secure control applets.
- 23. The computer program product of claim 16 comprising, at the co-browse server, in response to receiving a form modification or pointer update in a non-secure web page, broadcasting the form modification or pointer update to the conference participants via their non-secure control applets.